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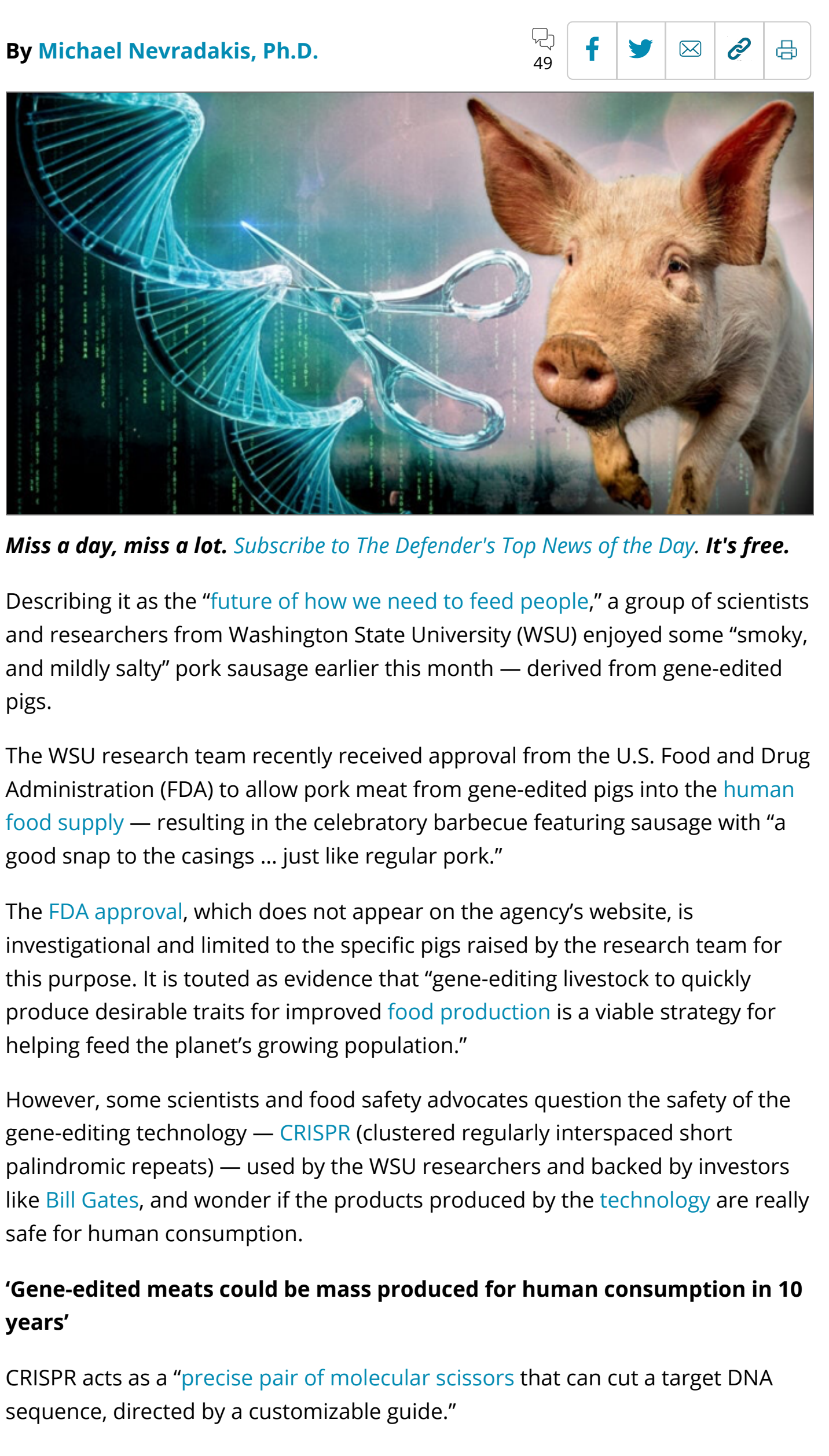
'Just Like Regular Pork': FDA Grants 'Investigational' Approval for Pork Products Made From Gene-Edited Pigs

"Gene-editing livestock to quickly produce desirable traits for improved food production is a viable strategy for helping feed the planet's growing population," the U.S. Food and Drug Administration said, but scientists argue the gene-editing technology involved has not been proven safe.

By Michael Nevradakis, Ph.D.

49



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Describing it as the "future of how we need to feed people," a group of scientists and researchers from Washington State University (WSU) enjoyed some "smoky, and mildly salty" pork sausage earlier this month — derived from gene-edited pigs.

The WSU research team recently received approval from the U.S. Food and Drug Administration (FDA) to allow pork meat from gene-edited pigs to enter the human food supply — resulting in the celebratory barbecue featuring sausage with "a good snap to the casings … just like regular pork."

The FDA approval, which does not appear on the agency's website, is investigational and limited to the specific pigs raised by the research team for this purpose. It is touted as evidence that "gene-editing livestock to quickly produce desirable traits for improved food production is a viable strategy for helping feed the planet's growing population."

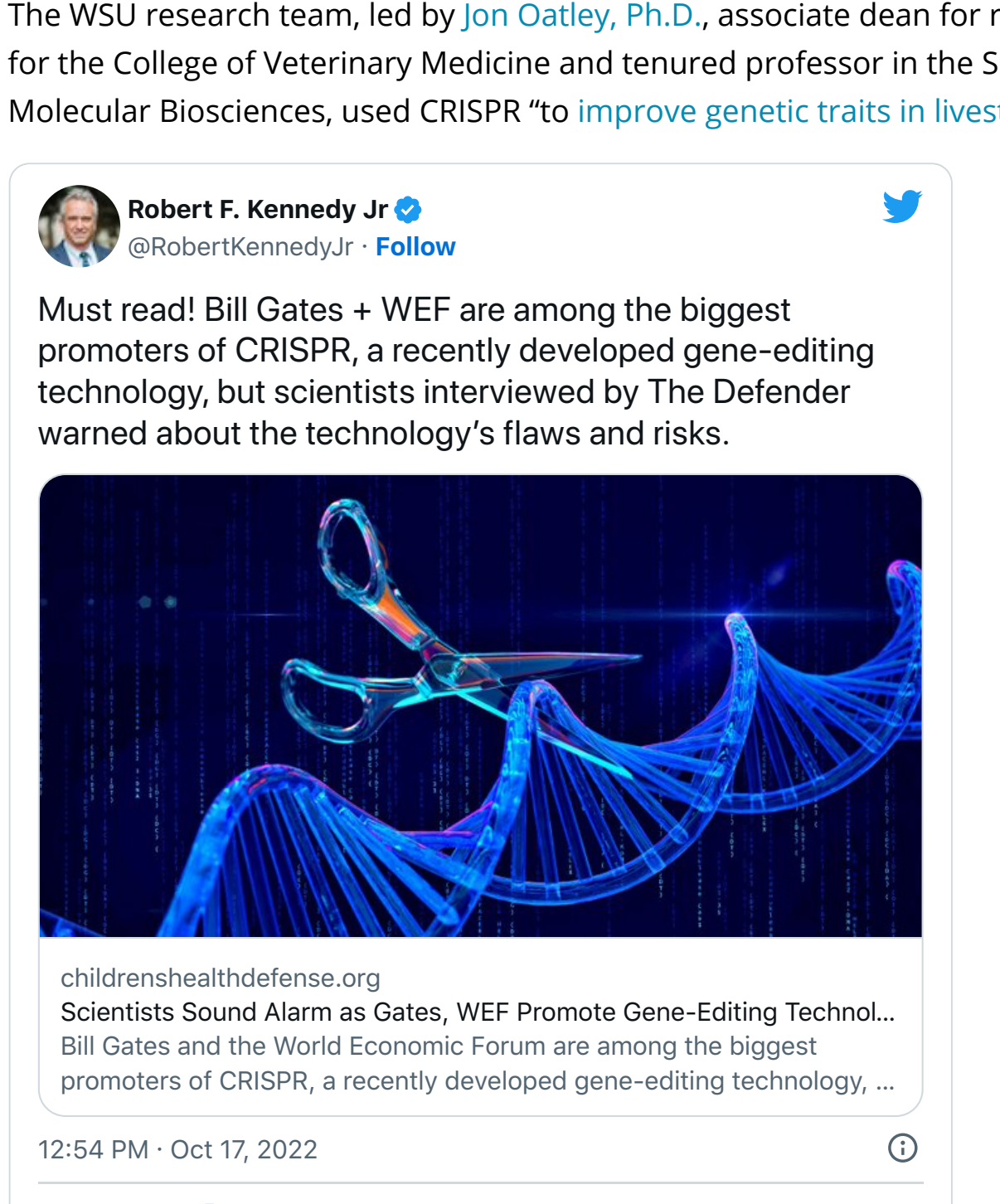
However, some scientists and food safety advocates question the safety of the gene-editing technology — CRISPR (clustered regularly interspaced short palindromic repeats) — used by the WSU researchers and backed by investors like Bill Gates, and wonder if the products produced by the technology are really safe for human consumption.

'Gene-edited meats could be mass produced for human consumption in 10 years'

CRISPR acts as a "precise pair of molecular scissors that can cut a target DNA sequence, directed by a customizable guide."

Put differently, this technology allows scientists to edit sections of DNA by "snipping" specific portions of it and replacing them with new segments. Gene editing is not a new concept, but CRISPR technology is viewed as being cheaper and more accurate than other gene-editing technologies.

The WSU research team, led by Jon Oatley, Ph.D., associate dean for research for the College of Veterinary Medicine and tenured professor in the School of Molecular Biosciences, used CRISPR "to improve genetic traits in livestock."



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Must read! Bill Gates + WEF are among the biggest promoters of CRISPR, a recently developed gene-editing technology, but scientists interviewed by The Defender warned about the technology's flaws and risks.

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According to Nextgov, Oatley sought "to demonstrate that food made from the [gene-edited] animals is safe to eat and that it is possible for an academic institution to achieve this type of FDA authorization."

"Gene-editing can make changes in an organism's DNA that could occur in nature or through selective breeding but would take much longer without a tool like CRISPR," Nextgov writes.

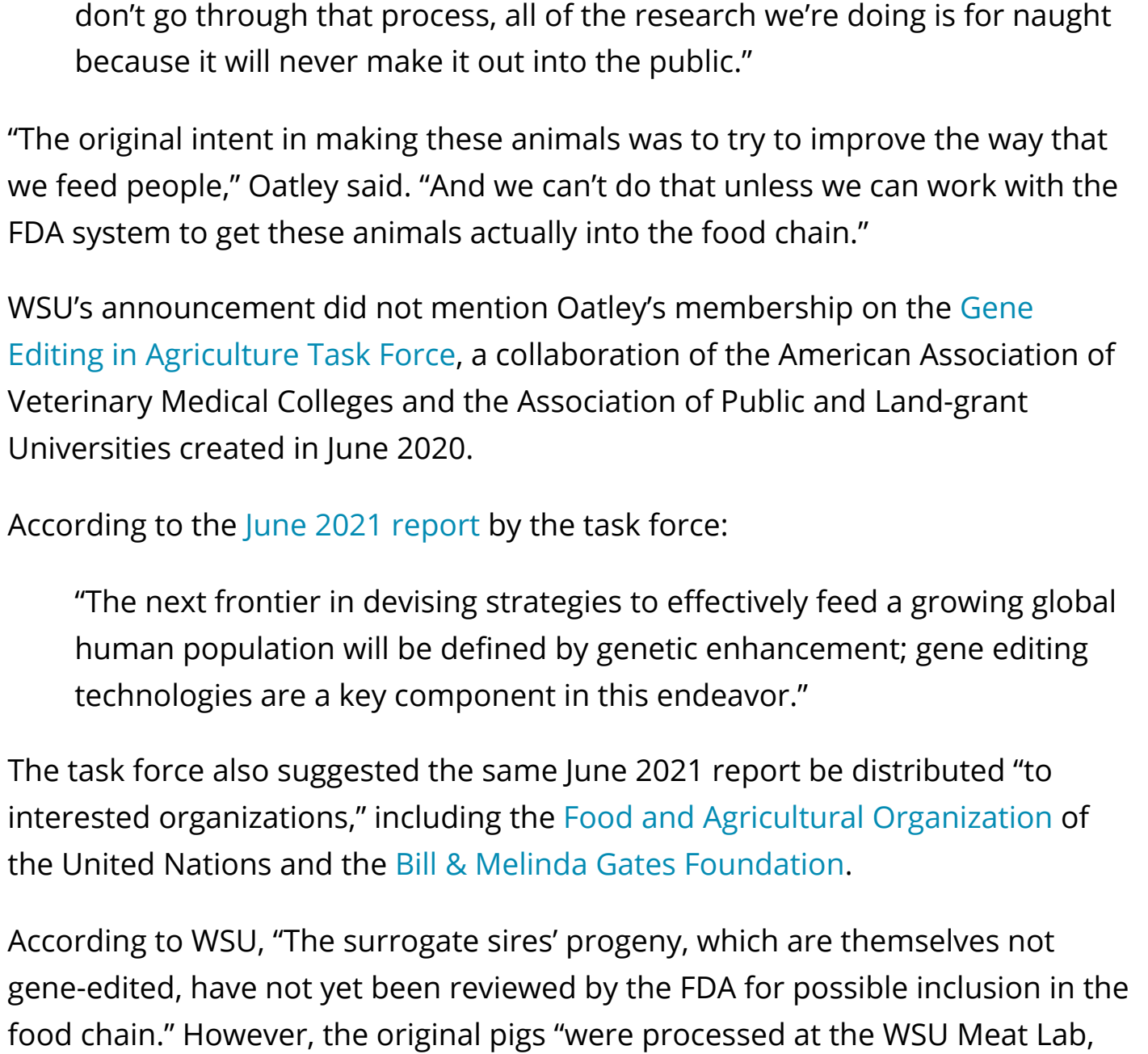
Oregon Public Broadcasting reported that WSU "is also studying CRISPR gene editing on cattle and sheep," and wrapped up a goat study last year. "If all goes as planned … gene-edited meats could be mass produced for human consumption in 10 years."

FDA's investigational authorization is limited to five pigs. A WSU announcement described the work by Oatley and his team as "essentially a high-tech form of selective breeding," adding that the pigs were originally gene-edited in a way that "would enable researchers to use them to sire offspring with traits from another male pig."

According to WSU:

> "Known as surrogate sires, this technology first gene-edits male animals to be sterile by knocking out a gene called NANOS2 that is specific to male fertility. These animals can then be implanted with another male's stem cells that create sperm with that male's desired traits to be passed on to the next generation."

The research "has the potential to not just improve meat quality but the health and resilience of livestock in the face of changing environmental conditions, a critical goal for increasing protein sources in developing nations," WSU said.


WSU makes history with CRISPR sausage
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WSU makes history with CRISPR sausage
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According to the university's announcement, Oatley said:

> "It's important for a university to set the precedent by working with federal regulators to get these animals introduced into the food supply. … If we don't go through that process, all of the research we're doing is for naught because it will never make it out into the public."

"The original intent in making these animals was to try to improve the way that we feed people," Oatley said. "And we can't do that unless we can work with the FDA system to get these animals actually into the food chain."

WSU's announcement did not mention Oatley's membership on the Gene Editing in Agriculture Task Force, a collaboration of the American Association of Veterinary Medical Colleges and the Association of Public and Land-grant Universities created in June 2020.

According to the June 2021 report by the task force:

> "The next frontier in devising strategies to effectively feed a growing global human population will be defined by genetic enhancement; gene editing technologies are a key component in this endeavor."

The task force also suggested the same June 2021 report be distributed "to interested organizations," including the Food and Agricultural Organization of the United Nations and the Bill & Melinda Gates Foundation.

According to WSU, "The surrogate sires' progeny, which are themselves not gene-edited, have not yet been reviewed by the FDA for possible inclusion in the food chain." However, the original pigs "were processed at the WSU Meat Lab, and the U.S. Department of Agriculture inspected the meat as it does with all meat products."

The meat "will be used in catering services that raise travel funds for the student members of the WSU Meat Judging team," WSU said.

CRISPR: 'It's not precise and it's not breeding'

The public often holds "many misconceptions about gene-editing," Oatley said, adding:

> "There's a trust that comes with university-based research. … At WSU, we're all about the science. We just want to make sure the research is valid, and the animals we produce are healthy."

However, other experts have previously raised questions about the potential safety risks of inserting gene-edited and lab-grown meat into the human food supply and using tools such as CRISPR for this purpose.

In October 2022 interviews with The Defender, Michael Antoniou, Ph.D., head of the Gene Expression and Therapy Group at King's College London, and Claire Robinson, managing editor of GMWatch, explained why they believe the risks of developing gene-edited meats and using CRISPR in this process outweighs the benefits.

Though CRISPR is often described as a "precision" gene-editing technology, Antoniou told The Defender, "It is not precise and it's not breeding."

Robinson told The Defender:

> "These were also risks with the old-style GMOs [genetically modified organisms], and they are still risks with these gene-edited GM plants and animals.
>
> "The risks, if you're gene editing them … are that there will be knock-on effects on the animals, welfare or health that we can't anticipate, such as deformities or changes in the function of certain genes in the animal."

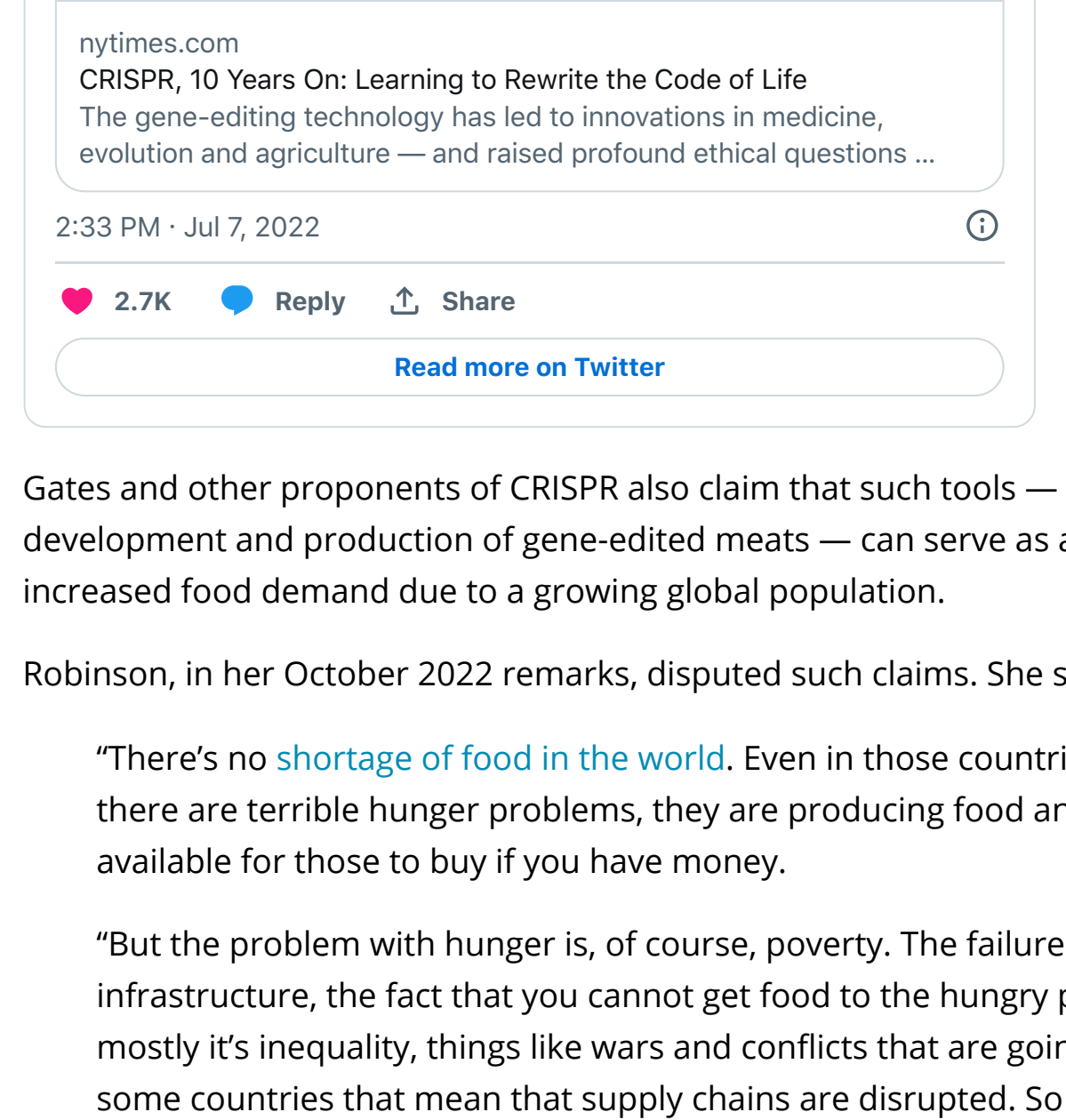
Antoniou warned that there may be unintended or unforeseen effects arising from this process. He said:

> "Innately, gene editing can also bring about unintended DNA damage … even at the site of your intended edit or elsewhere in the DNA of your target cells, with unknown downstream consequences.
>
> "None of these products … have been tested properly."

A report published in the Journal of Genetics and Genomics in 2020 found that CRISPR gene-editing in rice resulted in numerous unintended and undesirable on-target and off-target mutations.

However, major investors like Gates see significant potential in foods created via gene editing and CRISPR.

According to Business Insider, Gates has said, "Researchers are studying ways to modify the genes of livestock animals … to make them produce milk more like dairy cows" and "make dairy cattle more resilient in hot weather."



Bill Gates @BillGates · Follow

Happy 10th birthday to CRISPR, one of the most important inventions in medicine, biology, and agriculture.

nytimes.com
CRISPR, 10 Years On: Learning to Rewrite the Code of Life
The gene-editing technology has led to innovations in medicine, evolution and agriculture — and raised profound ethical questions ...

2:33 PM · Jul 7, 2022

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Gates and other proponents of CRISPR also claim that such tools — and the development and production of gene-edited meats — can serve as a solution to increased food demand due to a growing global population.

Robinson, in her October 2022 remarks, disputed such claims. She said:

> "There's no shortage of food in the world. Even in those countries where there are terrible hunger problems, they are producing food and it is available for those to buy if you have money.
>
> "But the problem with hunger is, of course, poverty. The failure of infrastructure, the fact that you cannot get food to the hungry people. But mostly it's inequality, things like wars and conflicts that are going on in some countries that mean that supply chains are disrupted. So really, there is no shortage of food and there isn't ever likely to be."

Instead, Robinson said that major corporate interests lie behind the use of CRISPR for the development of gene-edited food products.

"What we want to avoid," said Robinson, "is a situation where the food supply ends up entirely patented, owned by big corporations … The patents on CRISPR are mostly owned by Corteva. Another patent owner used to be Monsanto, now owned by Bayer."

Robinson added:

> "The technology is patented; the products are patented. Therefore, it is all about increasing corporate control of the food supply."

Corteva Agriscience, a conglomerate formed via the merger of Dow AgroSciences and DuPont/Pioneer, owns many CRISPR patents.

More FDA approvals of gene-edited meats likely coming soon

The FDA has approved only one other organization's gene-edited animal for entering the food supply, according to WSU. The company, Acceligen, produces "slick-haired cattle," which are gene-edited to grow coats that increase their resilience to higher temperatures.

The FDA's March 7, 2022, announcement about the approval stated that "the intentional genomic alteration (IGA) does not raise any safety concerns" and that this was the agency's "first low-risk determination for enforcement discretion for an IGA in an animal for food use."

"We expect that our decision will encourage other developers to bring animal biotechnology products forward for the FDA's risk determination in this rapidly developing field, paving the way for animals containing low-risk IGAs to more efficiently reach the marketplace," said Dr. Steven M. Solomon, director of the FDA's Center for Veterinary Medicine.

In recent years, the FDA also approved — or is close to granting full approval to — other gene-edited meat products for human consumption.

On Dec. 14, 2020, the FDA approved "a first-of-its-kind intentional genomic alteration (IGA) in a line of domestic pigs, referred to as GalSafe pigs, which may be used for food or human therapeutics. This is the first IGA in an animal that the FDA approved for both human food consumption and as a source for potential therapeutic uses."

According to the FDA, the IGA in GalSafe pigs is intended to eliminate alpha-gal sugar on the surface of the pigs' cells. "People with Alpha-gal syndrome (AGS) may have mild to severe allergic reactions to alpha-gal sugar found in red meat," the FDA said, adding that the potential environmental impact "is no greater than from conventional pigs."

The FDA also said it noted "no animal safety concerns" for GalSafe pigs "beyond those that would be expected in well-managed, commercial swine operations," and "the microbial food safety risk is low and is mitigated by the low number of GalSafe pigs entering the food supply and the ongoing surveillance for antimicrobial resistance, among other factors."

And in November 2022, the FDA declared lab-grown chicken meat developed by Upside Foods, a California-based firm, safe for human consumption, as part of its completion of a pre-market consultation that will likely lead to full FDA approval.

The FDA's Nov. 16, 2022, announcement described this development as "a food revolution" that enables "food developers to use animal cells obtained from livestock, poultry, and seafood in the production of food, with these products expected to be ready for the U.S. market in the near future."

The lab-grown chicken appears to have been developed using a process involving CRISPR. In 2019, it was reported that Memphis Meats — the former name of Upside Foods prior to a 2021 rebrand — was employing CRISPR as part of its process for curating lab-grown meat, and even received a patent for this purpose.

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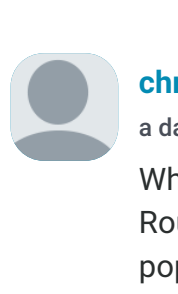

Michael Nevradakis, Ph.D.

Michael Nevradakis, Ph.D., based in Athens, Greece, is a senior reporter for The Defender and part of the rotation of hosts for CHD.TV's "Good Morning CHD."

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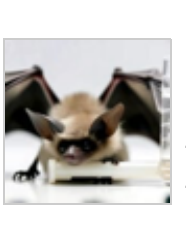
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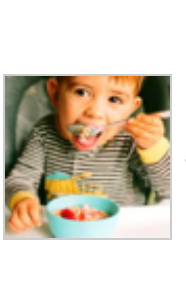
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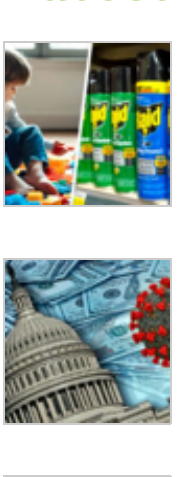
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Best Newest Oldest

chris a day ago edited
What was wrong with the old plants before Monsanto turned around Roundup-Ready resistant plants while feeding that chemical, LAB MADE slurry to the world population??? What was wrong with humans having NATURAL innate immunity before getting covid genetically modifying injections? The lies around new 'scientific advance' were and are always the same. Nothing cuts the genes like the BACTERIA based SYNTHETIC CRISP system applied NOW to EUKARYOTS!!!

FDA should have been TAKEN DOWN during their covid GMO injections crime! Why NOBODY does anything with these criminals? They have the guts to continue with every single God-Move-Over (phrase from Jeffrey Smith, the GMO detective guru) lethal technology. That lack of knowledge, the arrogance and evil intentions of the people involved in all of this are sickening to the bottom of the stomach. Just hope the day will come when all that insanity will disappear from this planet.
.
22 0 Reply • Share ›

RememberTheAlamo → chris 18 hours ago
We need to do more than just "hope". We need to educate ourselves, our families, our neighbors if possible. We need to carefully vet and elect leaders who are well informed and willing to take a stand on these important nutritional issues.
3 0 Reply • Share ›

chris → RememberTheAlamo 17 hours ago edited
I addressed the covid19 and the jab issue ever since the very begin of 2020 while educating those who wanted to listen... Eventually ended up writing posts about it all since March 2022 on substack:
https://substack.com/profil...
It all about the clear science exposing the crimes 100% and showing that it was way more than just regulation issue. Unfortunately even Substack is questionable now too....
1 0 Reply • Share ›

Darby O'Gill a day ago edited
There is no longer any doubt ! We live in an age of the most corrupt,rotten,Godless,Narcissistic people in positions of authority in government,corporations,universities,entertainment and Media,than in any other century.
19 0 Reply • Share ›

Peter van der Stam → Darby O'Gill 21 hours ago
Not any other country ???
Think again !!
5 0 Reply • Share ›

RememberTheAlamo → Darby O'Gill 18 hours ago
America has had issues from it's very founding in terms of being able to resist the false dichotomy offered by Europe. In the early colonies everyone wanted merchandise from England, the fashions from France etc. Nowadays, many foolish Americans still think that Europe sets the gold standard (??) for everything including "science" if you could call it that...
1 0 Reply • Share ›

lonerngr88 a day ago
Arrogant morons think just because they can cut and paste on their laptop they have the knowledge to cut and paste living organisms. And what makes them think they can do it better than our creator did?
16 0 Reply • Share ›

Jen 20 hours ago
The FDA needs to be disbanded! They do nothing positive for any of the people. Just more lies as we already know anything that has had gene-editing technology is unhealthy. Just like GMO foods.
14 0 Reply • Share ›

Judith Spears a day ago
stupid stupid ignorant men doing stupid ignorant things.
14 0 Reply • Share ›

tag → Judith Spears 14 hours ago
Stupid ignorant God wannabe's doing just what God will send them to the pit for. These idiot have sealed their own fate. they don;t know it yet and we just have to be patient. but believe, per the Book who will win and it would be farmer billy boy.
2 0 Reply • Share ›

Jeremy Forrest → Judith Spears 6 hours ago
Men and women
0 0 Reply • Share ›

Ektor57 a day ago
Who would ever trust the FDA? They are all swine.
19 1 Reply • Share ›

el Gallinazo 19 hours ago
Rest assured that the dangers to humanity are the feature just like with the fake vaccine bioweapons. Otherwise death cult psychopathic scum like Gates wouldn't be investing in it.
11 0 Reply • Share ›

Chezron a day ago
Will this crap be labelled?
11 0 Reply • Share ›

Peter van der Stam → Chezron 21 hours ago
NOPE!! Because Bill would NOT allow that.
10 0 Reply • Share ›

Robin K → Chezron 19 hours ago
If it were, would you really trust that it isn't done to make you think you have a Choice? Count on all of it being messed with - all of it. Start ordering your meats and produce online (or pick up in person) from the Amish.
6 0 Reply • Share ›

RememberTheAlamo → Robin K 18 hours ago
Build a greenhouse and grow your own produce as much as possible. Support your local Farmer's Market. Learn how to can foods and dehydrate foods.
4 0 Reply • Share ›

Voyt Regnal 21 hours ago edited
celebratory barbecue featuring sausage with "a good snap to the casings … just like regular pork."

Let them enjoy and stuff themselves with this crap..good luck !
10 0 Reply • Share ›

Robin K → Voyt Regnal 19 hours ago edited
Bet that WSU scientist won't be eating that Sh__ nor his family!
6 0 Reply • Share ›

tag → Voyt Regnal 14 hours ago
If you want t eat at least some semblance of healthy, ditch the microwave and the grill. good start.
1 0 Reply • Share ›

Grace Joubarne a day ago
Who says that pigs won't eventually fly, or chickens won't eventually have teeth?
9 0 Reply • Share ›

Robin K 19 hours ago
Funny, WSU guru says "public supposed to Trust the Science..." Yeah, right! Been there, haven't we people?
8 0 Reply • Share ›

Nod a day ago
They promise to save us, and they feed us that which kills us. And we literally buy into it.
7 0 Reply • Share ›

Peter van der Stam → Nod 21 hours ago
Sheep are not the cleverest of animals.
3 0 Reply • Share ›

tag → Peter van der Stam 14 hours ago
But they follow without question. All you have to do is look at the lines that rushed to get tested and then to get jabbed. Wonder how many of them today questioned "What the hello was I thinking?" Answer? They weren't thinking, only reacting to fear, propaganda and lies. SAD!
2 0 Reply • Share ›

tag → Nod 14 hours ago
Only some of us. Other got smart years ago.
2 0 Reply • Share ›

LinUK 15 hours ago
The pride and arrogance of man who thinks he can improve on God's creation. Galatians 6:7 Do not be deceived: God cannot be mocked. A man reaps what he sows.
5 0 Reply • Share ›

Peter van der Stam 21 hours ago
He Mr Gates, hang on a moment !!
You said in 2914 that the global population is growing to fast and the brakes should be pulled. Sterilisation and killing off people with the mRNA jabs.
I guess, YOU are the guy paying (bribing) the University AND the FDA.
Now ones.
Well I don't even have to wonder about that. It's just a fact.
He is seeing more money rolling into his account.
Please go to India for a short holiday.
But you don't dare to.
6 1 Reply • Share ›

tag → Peter van der Stam 14 hours ago
Please just go to your permanent home. Called HELL-o

👍 1 👎 0 Reply • Share ›

draeger
a day ago
so glad I'm vegan

👍 5 👎 2 Reply • Share ›

Nod ↪ draeger
a day ago
well, here is the sad news. There is mRNA in our veggies too.

So glad I am a meat eater.

👍 11 👎 1 Reply • Share ›

Robin K ↪ draeger
19 hours ago
They are going to very soon put that "injection" stuff you got in your arm in YOUR VEGGIES, too. Haven't you seen that information yet? Grow your own and can it, or you will be eating it. I've already thrown out a bag of "organic" Granny Smith apples because they had that "Apeel" label on them - that weird, cannot scrub off "skin" that they are putting on avocadoes, too. All ready in stores near you...and, it's sticky like super glue! Weird beyond sci-fiction.

👍 5 👎 0 Reply • Share ›

Jillian ↪ draeger
a day ago
Me too ! Vegan for 12 years .

👍 2 👎 0 Reply • Share ›

Micheline S Marcantonatos ↪ draeger
5 hours ago
The vegetables and fruit were the first to be genetically modified. Plus you miss real nutrition that only comes from animal based foods. That Is why ones brain contains such large amounts of cholesterol, to help o es intelect, obviously not yours!

👍 0 👎 0 Reply • Share ›

Polly Green ↪ Micheline S Marcantonatos
2 hours ago edited
Riboflavin deficiency is pretty common in people who avoid meat and dairy. The “enrichment” of flour etc is always with the most crappy form of the nutrient—iron shavings for instance.

👍 0 👎 0 Reply • Share ›

tag
15 hours ago
All I can say is I went to my local "food Store" today and totally skipped the meat and dairy aisle. We have to vote with our dollars and just say NO to all this garbage. As far as produce, only shopped the organics and not to comfortable with them either. My garden is planted and will soon be producing. Will triple my efforts this year to save and preserve every thing I can. They are sure hell bent on stuffing this crap down our throats.

👍 2 👎 0 Reply • Share ›

Polly Green
5 hours ago
“Just like”? Untrue. This is inherently dangerous. I won’t touch it because the Hog Farmers Assoc has already admitted to using multiple mRNA “vaccines” on their animals, and now we’re really into Frankenstein territory with CRISPR. Until about five minutes ago, genetic researchers thought there was such a thing as “junk DNA” because they hadn’t figured out what these genes did, thus betraying their own arrogance. “We don’t know so it has nothing to tell us.” But then AHA! The “junk DNA” turned out to have numerous functions in the body. So they’re tinkering around with the building blocks of animal DNA, conjuring up mRNA vaccines for the same animals, playing with viruses that escape labs and ostensibly kill “millions” (but actually just provide cover for massive neglect of the most vulnerable elderly, resulting in staggering mortality) and these same dunderheads think they can “improve” on nature? These are people who make moral arguments based on notions like “maybe aliens brought their ‘seed’ to Earth” because they have nothing but fanciful suppositions to support their ludicrous worldview, and then we’re called “anti-science”!
I won’t find it difficult to buy real, natural pork untainted by laboratory interventions, but many more will gobble it down with a side of GMO Fritos and end up sterile and sick. Just more opportunities to experiment on the public.

👍 1 👎 0 Reply • Share ›

Jillian
a day ago
So glad I am vegan ! This is just so disturbing. Chickens and turkeys , cows , all the food animals are genetically altered to grow extra big .

👍 2 👎 3 Reply • Share ›

Robin K ↪ Jillian
19 hours ago
Haven't you heard, messing with "injected" you know what, in the Vegetables, too. No escaping it, if you buy it - unless you get meat and produce from Amish or grow/can your own.

👍 5 👎 2 Reply • Share ›

RemembertheAlamo ↪ Robin K
18 hours ago
Which is why they are trying so hard to destroy the Amish farmers and Amish markets. This is why Governor Gretchen Whitmer of Michigan tried to prevent the selling of seeds during the plandemic.. this is why we are seeing all these "mysterious"(?) fires and explosions at food processing and food storage warehouses....

👍 7 👎 0 Reply • Share ›

Micheline S Marcantonatos
↪ RemembertheAlamo 5 hours ago
J am not all that fond of the. Amish, rape, especially familial rate is highly prevalent with them!

👍 0 👎 0 Reply • Share ›

tag ↪ Jillian
14 hours ago
Not if you are smart enough to buy meat from farmers that also think these practices are disgusting. Not every farmer is a Frankenstein. And vegan? Good luck with that.

👍 3 👎 1 Reply • Share ›

Yetimonster ↪ Jillian
2 hours ago
Like the plants aren't genetically modified? They're modified to withstand massive amounts of poisonous pesticides. And that process destroys the soil, as well as makes sure the plants get those poisons in their little 'plant bodies' which you eat. Hmmmm. Add to that the 'scientific' messing around with their genome so they make 'vaccines' - just to be sure those who didn't want the dna altering jab get it in some way or other. Beyond immoral and unethical. These people think THEY are God - but they are truly godless and lost.
God made the cycles between animals, plants, earth, water, sunshine to renew the earth - if we paid attention to those cycles we wouldn't have the soil issues we now have.

👍 0 👎 0 Reply • Share ›

BarbaraCharis
20 hours ago
Excess protein is a killer. I learned the hard way... eating meat and dairy. How much protein do people need? The Food Indusry set the standards to sell more of it. Since 1960 protein ingestion went up..and so did the weight of the american people. Americans are now 45th in world health and are listed as the most obese in the world. Enjoy your animal protein! Every meal with animal protein puts you over your daily max. There is a limit to how much proteiin people need.

👍 3 👎 7 Reply • Share ›

Truthie ↪ BarbaraCharis
19 hours ago
Everything in moderation...and choose wisely.

👍 6 👎 0 Reply • Share ›

tag ↪ BarbaraCharis
14 hours ago
Enjoy your excessive carbs. You do know carbs are sugar in disguise don't you? Animal protein = Fat? You know that thing that is demonized by the MSM, FDA The thing our ancestors ate way more than modem man did? How come things like dementia and cancer and heart disease are relatively new to this world since about 1960? Crisco over Lard anyone? The same thing needed for a healthy brain that is made up of 65% FAT? Deny it and welcome things like dementia. which has exploded since the no fat low fat lie. Fat doesn't make you fat, carbs and sugar do. And while you are at it, Eat eggs! At least 2 a day! You'll be surprised what benefits they have on your brain. Cholesterol? LOL! another lie to sell you lipator. Bet you also demonize salt! You should unless educated enough to know the difference between say Morton and pink salt Or better yet Colima salt. Grow up! Those diet lies KILLED my father so no dummy to the real research. Might want t adjust yours?

👍 5 👎 1 Reply • Share ›

Polly Green ↪ BarbaraCharis
2 hours ago
“Doctor” Fred Stare of Harvard demonized cholesterol and advocated processed sugar and hydrogenated oils in the early sixties. That was the cause of obesity in the US. Add in the increased toxin load from numerous vaccinations, increased antibiotic use (Ozzie and Harriet actually had a show where the entire family got penicillin shots for the common cold, “just to be safe”!) and boom, we had a witch’s brew of additional health problems handed to us by the FDA/USDA. Traditional diets are the healthiest. Moderate meat intake and varied vegetables without additives.

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Micheline S Marcantonatos ↪ BarbaraCharis
5 hours ago
Barbara, it's not protein, but Animal fat we need more of. That was reduced significantly and we see the results. Stop spewing BS, get educated , get your facts straight!

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AWells1
2 hours ago edited
There seems to be a lot of comments about vegan versus meat eating. Stop. This is divisive by design. We are all in this together. None of us want gene-edited meat, mRNA injected animals, second-hand GMO's via animals that have consumed them, GMO fruits and vegetables, and Round-up/glyphosate/pesticide contaminated foods.

A caveat, biologics (vaccines) are allowed in organic meat. There are no standards for organic produce regarding the use of biologics (vaccines) per the National Organic Standards Board. They have been working on engineering vaccines into produce for more than twenty years. https://research.mcdb.ucla....

There has been a recent shift in language to "protein," with "protein" being undefined. By protein they are referring to amino acids. So protein can be from anything - peas, soy, meat, bugs, eggs, etc. Be leery of anything that you've never heard of. Read everything - labels, fine print, company websites. GMO's were on the market for five years before most people realized and mRNA pigs have been in the food supply for five years now (since 2018) and we're just now finding out about them.

We should be deeply concerned about the play for a patented food supply and global food control as well as global monetary control via CBDC's. Gates has been funding both CRISPER technology as well as genetically modified heme iron in the Impossible Burgers. He's playing both sides. That's the point, so that no one can consume food that is not altered in one way or another.

And lastly, STOP IDENTIFYING. Everything that we are manipulated to believe is on purpose to divide us. It doesn't matter if you're vegan, paleo, a carnivore, a hunter, low-fat or fat-free, macrobiotic, etc. Do what works for you. Biochemical individuality is the way to true health. When it comes down to it, we're all on the same side of health freedom.

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